

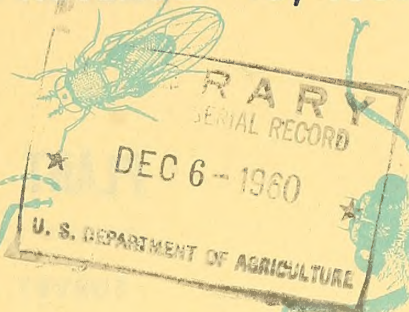
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VOL. 10 No. 47

NOVEMBER 18, 1960



Cooperative **ECONOMIC INSECT REPORT**

Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearinghouse and does not assume responsibility for accuracy of the material.

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Survey and Detection Operations
Plant Pest Control Division
Agricultural Research Service
United States Department of Agriculture
Washington 25, D. C.

COOPERATIVE ECONOMIC INSECT REPORT

Highlights of Insect Conditions

Limited numbers of GREENBUG found in several Oklahoma counties and counts averaged 30 per foot of row in small grains in some fields in Potter, Oldham and Deaf Smith Counties, Texas, during period October 26 - November 7. HESSIAN FLY surveys reported in Kansas and Illinois. Infestations ranged 8-52 percent in Kansas and puparia or larvae per 100 fall-seeded wheat stems ranged 0-39.6 in east-southeast, Illinois. (p. 1087). WHEAT CURL MITE survey in Kansas reported. Degree of infestation ranged from trace to heavy. (p. 1088).

SPOTTED ALFALFA APHID infesting alfalfa in area of Jackson County, Oregon; first infestation in county and in southern part of State. (p. 1088).

BEET ARMYWORM severe on sugar beets in Imperial County, California; large blocks of seedling beets destroyed. (p. 1089).

Three PINK BOLLWORM larvae collected in gin trash in Maricopa, Pinal and Pima Counties area. (p. 1090).

Current SCREW-WORM situation report. One case reported in Hillsborough County, Florida. (p. 1091).

CORRECTIONS (p. 1093).

INSECT DETECTION: European earwig collected in Lackawanna County, Pennsylvania, for first time. (p. 1092).

INSECTS not known to occur in the United States. (p. 1095).

Reports in this issue are for week ending November 11, unless otherwise indicated.

WEATHER OF THE WEEK ENDING NOVEMBER 7

Temperatures for the week averaged near normal in the Far West and below normal in virtually all areas east of the Rocky Mountains. Precipitation occurred on 4 or 5 days in parts of the Pacific Northwest and on 2 days in most of the remainder of the Nation. In most areas, temperatures fell to the lowest levels of the season to date, with freezing penetrating deep into southern areas, and in the northern half of the Nation light snowfall was rather widespread with spotty accumulations of a few inches. Over the weekend, the weather was mostly fair and sunny with rising temperatures from the Rocky Mountains to the Atlantic coast.

In the Eastern States, temperatures were lowest on the 7th and 8th as a cold air mass moved across the area from the midcontinent region. For the first time this season, minimum temperatures fell to subfreezing levels at most coastal stations from southern New England to South Carolina, and scattered light frost was reported in northern and northwestern interior sections of Florida. In the northeastern interior, minima fell into the teens, with 10° at Putnam, Connecticut, and West Cummington, Massachusetts, the lowest reported.

The lowest temperatures in the midcontinent area occurred when a cold air mass moved over that area on the 9th, 10th, and 11th. Beach, North Dakota, reported a low of -3°, and freezing extended to central portions of Texas and Alabama. A low of -8° was recorded at Fox, Wyoming, and subzero minima also occurred in some higher mountain valleys in Colorado.

Precipitation totals were very light in southeastern coastal areas, the midcontinent, and Rocky Mountain regions. In a belt extending northeastward from southern Texas and including the Ohio Valley and Appalachians, totals ranged from 1/2 to over 1 inch. Totals for the week also exceeded 1/2 inch in the Pacific Northwest and central and northern California, with more than 2 inches on the western slopes of the Sierra Nevada Mountains and along the coast north of San Francisco.

Substantial snow fell in the mountains of Idaho, and 1-to 8-inch falls were reported in the Colorado Rockies. In the Great Plains, snowfall was quite general as far south as Kansas on the 8th and 9th, when 2 to 3 inches were reported at some western stations in that State. Many stations in northern and western Missouri reported their first snowfall of the season. On the 11th, snow accumulated to 4 inches at Marquette and Calumet, Michigan. At the end of the period, however, the snow cover, mostly 1 to 2 inches, east of the Rockies was limited to northern portions of North Dakota, Minnesota, Michigan, and spots in upper New England. Shallow lakes are beginning to freeze over in northern Minnesota. (Summary supplied by U.S. Weather Bureau).

CEREAL AND FORAGE INSECTS

FALL ARMYWORM (Laphygma frugiperda) - OKLAHOMA - Light in small grain over widely scattered areas. Reports of infestations continue to decrease as cool temperatures become more common. (Okla. Coop. Sur.). TEXAS - Resowing of small grains continues in some areas. Infestations rapidly disappearing with advent of freezing weather in northern half of State. (Newton). LOUISIANA - Heavy infestations damaging fall-seeded plots in Madison Parish; controls being applied. (Spink). CALIFORNIA - Heavy on corn plantings in Winterhaven, Imperial County. (Cal. Coop. Rpt.).

SOUTHWESTERN CORN BORER (Zeadiatraea grandiosella) - NEW MEXICO - All specimens collected from corn, broomcorn and grain sorghums during European corn borer survey in October, determined as this species. Damage heavy in fields of corn along east side of State. (N. M. Coop. Rpt.).

SMARTWEED BORER (Pyrausta ainsliei) - VIRGINIA - Single specimen collected in cornstalk in Greensville County. (Tarpley, Oct. 21).

CORN ROOTWORMS (Diabrotica spp.) - KENTUCKY - Adults (95 percent D. longicornis, 5 percent D. undecimpunctata howardi) observed feeding on silks of ears in fields of corn in Ohio River bottom lands near Geneva, Henderson County, on August 17; adults averaged 5 (ranged 1-12) per ear. Damage was computed to be approximately 20 percent of the crop in same fields, October 13, by examination of random ears. Ears with more than half of kernels missing because of presumed poor pollination resulting from adult feeding on silk, not uncommon. (Flake, Townsend).

WHITE GRUBS - OKLAHOMA - An unidentified species causing damage to some fields of wheat in localized areas of Canadian County. (Okla. Coop. Sur.). TEXAS - Light to moderate infestations of Phyllophaga spp. in fields of small grain in Uvalde and Donley Counties. (Gallman, Breedlove).

Small Grain Aphids in Oklahoma - Several species common in many fields throughout State. Very limited numbers of Toxoptera graminum found in several fields in Bryan, Mayes, Rogers, Wagoner, Tulsa, Creek, Payne, Oklahoma, Kingfisher, Garfield and Alfalfa Counties; averaged less than 1 per linear foot of drill row in most fields, but 15 and 48 per linear foot in 2 fields in Hennessey area, Kingfisher County. Rhopalosiphum maidis most common species in all areas; particularly common in barley. Macrosiphum granarium, R. fitchii and Sipha flava also present. (Okla. Coop. Sur.).

GREENBUG (Toxoptera graminum) - TEXAS - Survey conducted during period October 26 to November 7 in 25 panhandle counties revealed presence of this species in 22 counties. Averaged 30 per foot of row in some fields in Potter, Oldham and Deaf Smith Counties. Generally, populations in other areas ranged 1-10 per foot of row and were less numerous in eastern part of panhandle area. (Daniels).

RUSTY PLUM APHID (Hysteroneura setariae) - ARIZONA - Populations continue very heavy on sorghum in central area of State. (Ariz. Coop. Sur.).

HESSIAN FLY (Phytophaga destructor) - KANSAS - Surveys conducted October 24-25 showed plant infestations ranged 8-52 percent in Finney, Ness, Barton, Ellsworth, Saline, Marion and Geary Counties; 3 fields in Rush County ranged 40-88 percent of plants infested. (Jones, Somsen). ILLINOIS - Survey of fall-seeded wheat conducted in 5 east-southeast counties; 10 fields randomly checked in each county. Results, in terms of puparia or larvae per 100 stems, by county, were as follows: Clark - 0.8; Jasper - 6.4; Shelby - 0; Lawrence - 2.8; Marion - 39.6. This probably reflects fact that on east side of section, although plenty of wheat was seeded early, conditions so dry that germination probably did not occur until recommended seeding date; rainfall occurred further west and germination proceeded normally. (Ill. Ins. Rpt.).

WHEAT CURL MITE (Aceria tulipae) - KANSAS - Survey conducted October 25 to November 7 showed the following degree of infestation:

Counties	No. Fields Examined	Infestation	
		Percent Infested	Degree
Decatur, Norton, Sheridan, Thomas	10	40	Trace
Lane, Ness, Scott	4	50	Trace
Finney, Hodgeman	7	57	Trace
Jewell, Phillips, Rooks, Smith	7	85	Trace to light
Barton, Dickinson, Ellsworth, McPherson, Marion, Rush, Saline	20	55 30	Trace to light Heavy
Harvey, Pawnee	4		Trace to light
Geary	1		Heavy
Butler	1		Trace
(Somsen)			

ERIOPHYID MITES - TEXAS - Light infestations of undetermined species in fields of small grains in 12 panhandle counties. (Daniels).

GRASSHOPPERS - OKLAHOMA - Marginal damage by several species continued, but apparently reduced in alfalfa and small grains in widely scattered areas. Averaged 3-6 per square yard in some fields in Woods, Alfalfa, Major and Kingfisher Counties. Damaging infestations also noted in Stephens and Atoka Counties. (Okla. Coop. Sur.).
NEW MEXICO - Damaged fields of winter wheat in northeast Curry County along margins and fence rows this fall; averaged 3-4 per square yard in the area. (N. M. Coop. Rpt.).

SALT-MARSH CATERPILLAR (Estigmene acrea) - ARIZONA - Migrating larvae damaging many central area fields of alfalfa located near cotton; most infestations limited to edges of fields. (Ariz. Coop. Sur.).

ALFALFA WEEVIL (Hypera postica) - MARYLAND - Light numbers of second-instar larvae in alfalfa at White Hall, Baltimore County. (U. Md., Ent. Dept.).

CLOVER ROOT CURCULIO (Sitona hispidula) - MARYLAND - Light numbers of adults collected from alfalfa at White Hall, Baltimore County. (U. Md., Ent. Dept.).

SPOTTED ALFALFA APHID (Therioaphis maculata) - OREGON - Infesting fields of alfalfa in Table Rock area of Jackson County, November 4. This is first record for this county and in southern part of State. (Winters). CALIFORNIA - Light in alfalfa plantings in Vina, Tulare County. (Cal. Coop. Rpt.). NEW MEXICO - Generally light in alfalfa in Dona Ana County; controls applied to a few fields of seedling alfalfa. (N. M. Coop. Rpt.). OKLAHOMA - Light infestations in alfalfa. (Okla. Coop. Sur.). NEBRASKA - High populations in field of alfalfa in Greeley County and 2 fields in Howard County. (Bergman).

PEA APHID (Macrosiphum pisi) - NEW MEXICO - Populations generally light in Dona Ana County alfalfa, although few fields of seedling alfalfa have been treated. (N. M. Coop. Rpt.).

LYGUS BUGS (Lygus spp.) - ARIZONA - Adults averaged 25 per 10 sweeps in Maricopa County alfalfa. (Ariz. Coop. Sur.). NEBRASKA - L. lineolaris adults remain active in alfalfa in central portion of State. (Bergman).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - Averaged 10 per 10 sweeps in Maricopa County alfalfa. (Ariz. Coop. Sur.).

GREEN JUNE BEETLE (Cotinis nitida) - VIRGINIA - Addenda to report in CEIR 10(46): 1075 at Drill Mountain. Area involved is a farm on top of Drill Mountain; about 30 acres heavily infested, averaging 25-30 larvae per square foot. Ground appears in state of upheaval, as if by ice, in most areas. Larvae averaged 50 per square foot in places where hay had been stacked and in piles of old dung. (Tarpley).

WHITE-FRINGED BEETLES (Graphognathus spp.) - NORTH CAROLINA - Inspection negative on 7 properties of 58 acres in Columbus County (Read, Nov. 8); additional infested acreage found in Union County, with all known infestations now treated in that county (Savage, Nov. 8). FLORIDA - Surveys conducted around concentration points in Jackson County revealed 260 acres of new infestation in the Alliance community during October. (Fla. Coop. Sur.).

FRUIT INSECTS

APPLE GRAIN APHID (Rhopalosiphum fitchii) - OREGON - Fall migrants appearing in moderate numbers in Jackson County pear orchards. (Gentner).

BLACK-MARGINED APHID (Monellia costalis) - ARIZONA - Heavy on pecan trees in central and southwest areas of State. (Ariz. Coop. Sur.).

NAVEL ORANGEWORM (Paramyelois transitella) - CALIFORNIA - Medium infestations occurring in English walnuts in La Grange and heavy in almonds in Oakdale, Stanislaus County. (Cal. Coop. Rpt.).

TRUCK CROP INSECTS

BEET ARMYWORM (Spodoptera exigua) - CALIFORNIA - Severe infestations on sugar beets in El Centro-Niland areas of Imperial County. Large blocks of seedling beets destroyed in Imperial County. (Cal. Coop. Rpt.).

CORN EARWORM (Heliothis zea) - TEXAS - Infesting lettuce in Uvalde and Zavala Counties. (Plowman).

BEAN WEEVIL (Acanthoscelides obtectus) - CALIFORNIA - Heavy on kidney beans in King City, Monterey County. (Cal. Coop. Rpt.).

A BEAN APHID (Triphidaphis phaseoli) - CALIFORNIA - Medium on bush beans in Watsonville, Santa Cruz County. (Cal. Coop. Rpt.).

TURNIP APHID (Rhopalosiphum pseudobrassicae) - OKLAHOMA - Populations being reduced by parasites and predators in 1 turnip planting near Stillwater, Payne County; many plants were killed (up to 50 percent) while remaining were heavily damaged. Damaging infestations also noted on turnips in Atoka County. (Okla. Coop. Sur.).

A SERPENTINE LEAF MINER (Liriomyza sp.) - LOUISIANA - Damaging infestations remain active on fall tomatoes in East Baton Rouge Parish. (Spink).

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - LOUISIANA - Infesting 2 fields of cabbage in St. Martin Parish, with damage in both fields. Infestations limited to few isolated mounds. (Spink).

COTTON INSECTS

PINK BOLLWORM (Pectinophora gossypiella) - CALIFORNIA - A total of 4,543 bushels of gin trash processed in 6 cotton-growing counties; 139 light traps operated for a total of 963 trap-nights; 701 lint cleaner inspections made in 212 gins and 77,877 green bolls inspected. All detection surveys negative. (Cal. Coop. Rpt., Nov. 4). ARIZONA - Three larvae collected in gin trash machines in Maricopa, Pinal and Pima County areas; 2 from Peoria and Cashion areas (Maricopa County) and 1 at a Marana gin in Pima County. It is not known whether larva taken at Marana came from a field in Pima County or in Pinal County. (Ariz. Coop. Sur.).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

NANTUCKET PINE MOTH (Rhyacionia frustrana) - PENNSYLVANIA - Moderate infestation on Scotch pine plantation of 20,000 3-year-old trees. (Gesell, Oct. 18).

OKLAHOMA - Six larvae and 134 pupae found alive in 250 tips examined in pine planting checked in Payne County; additional 6 larvae and 9 pupae found dead in tips. (Okla. Coop. Sur.).

PINE WEBWORM (Tetralopha robustella) - PENNSYLVANIA - Caused noticeable damage to jack pine in Lycoming County. (Nichols, Oct. 31).

BARK BEETLES (Dendroctonus spp.) - VIRGINIA - D. frontalis activity continues on Eastern Shore, with 5 acres in Northampton County reported involving 1-2 acres each and totaling 100 dead trees; reportedly involved in death of 6 loblolly pines in 1 spot in Princess Anne County. Dendroctonus spp. active on loblolly pine in Northampton County in 4 areas of 1-2 acres in size, with 50 dead trees. (Va. Div. For. Sur. Rpt., Sept. Sum.). TEXAS - Activity of D. frontalis decreasing in east. An estimated 10,000,000 board feet of sawtimber and 30,000 cords of pulpwood were killed in spite of an aggressive control program. (So. For. Pest Rpt., Nov. 1).

IPS BEETLES (Ips spp.) - VIRGINIA - Killing loblolly pines in 3 areas of Northampton County, 1/2-1 acre in size; 50 trees dead. (Va. Div. For. Sur. Rpt., Sept. Sum.).

PALES WEEVIL (Hylobius pales) - VIRGINIA - Damage heavy on loblolly seedlings less than one-year-old in 1 area of Accomack County. (Va. Div. For. Sur. Rpt., Sept. Sum.).

A PINE SAWFLY (Neodiprion excitans) - TEXAS - Continues active in eastern part of State, but no heavy or widespread defoliation expected during 1960. (So. For. Pest Rpt., Nov. 1).

PUSS CATERPILLAR (Megalopyge opercularis) - OKLAHOMA - Infestations continue; decreasing in shade trees in Love and McCurtain Counties. (Okla. Coop. Sur.). TEXAS - Common on oaks in Gonzales County. Several school children stung. (Stockton).

AN OAK SAWFLY (Caliroa lineata) - PENNSYLVANIA - Damaged top of several red oaks in Susquehanna County. (Gesell, Sept. 21).

APHIDS - CALIFORNIA - Drepanaphis acerifoliae medium on maple trees and Myzocallis kahawaluokalani heavy on crapemyrtle in Oroville, Butte County. (Cal. Coop. Rpt.).

TARNISHED PLANT BUG (Lygus lineolaris) - PENNSYLVANIA - Generally more abundant than usual on flowers during October. (Udine).

COCCIDS - CALIFORNIA - Aspidiotus perniciosus medium on cotoneaster in Oroville, Butte County, and medium on flowering plum in Encinitas, San Diego County. A. lataniae heavy on Photinia serrulata in a nursery in Gridley, Butte County. Parlatoria pittospori heavy on Melaleuca sp. and Pittosporum sp., medium on acacia and light on hakia in San Diego, San Diego County. Cinara tujafilina and

Pseudococcus gahani heavy on cedar, juniper and arborvitae in a nursery in Eureka, Humboldt County. (Cal. Coop. Rpt.). NEBRASKA - Aulacaspis rosae infesting ornamental roses in Pawnee County. (Roselle). VIRGINIA - Ceroplastes sp. heavily infesting Burford holly at a home in Suffolk, Nansemond County. (Amos, Oct. 29). NORTH CAROLINA - Ceroplastes sp. fairly widespread in Hertford County on camellias and other ornamentals; also present in Person County. (Ballentine, Farrier). Fiorinia theae ranged 5-30 per leaf on Chinese holly, locally, in Lenoir County. (Koonce, Farrier).

INSECTS AFFECTING MAN AND ANIMALS

SCREW-WORM (Callitroga hominivorax) - KANSAS - Two flies reared from larvae collected from 2 different steers on October 3, in Ellis County, determined as this species by C. W. Sabrosky. (Harvey). NEW MEXICO - Continues a minor problem in cattle herds, especially in southern counties. (N. M. Coop. Rpt.).

Current Screw-worm Situation Report - Week Ending November 13, 1960

State	Cumulative Totals - 1960		Counties or Parishes	
	Cases	Premises		
Alabama	1	1	Geneva	
Arkansas	49	37	Chicot Desha Ashley	Crawford Sevier Drew
Florida	1	1	Hillsborough	
Louisiana	180	100	Richland Red River Franklin Rapides De Soto Ouachita Natchitoches	Caldwell Madison West Carroll Tensas Catahoula La Salle
Mississippi	96	49	Issaquena Sharkey Sunflower	Washington Leflore Warren
Totals	327	188	27	

Screw-worm Cases Intercepted at Inspection Stations: 1960 - 30 to date.

(Anim. Dis. Erad. Div.)

COMMON CATTLE GRUB (Hypoderma lineatum) - NEW MEXICO - Counts up to 21 per head found in backs of range cattle in Eddy County. (N. M. Coop. Rpt.).

STABLY FLY (Stomoxys calcitrans) - OKLAHOMA - Averaged 1 per animal on dairy cows and 12 per animal on 9 dairy bulls in Payne County; averaged 1 per animal on beef cows in Pushmataha County. (Okla. Coop. Sur.).

HORN FLY (Siphona irritans) - OKLAHOMA - Continues light on cattle in many sections; averaged 25 per animal on dairy cows in Payne County and 30 per animal on beef cows in Pushmataha County. (Okla. Coop. Sur.). NEW MEXICO - Populations becoming much lighter on range cattle throughout State as temperatures drop. (N. M. Coop. Rpt.).

HOUSE FLY (Musca domestica) - OKLAHOMA - Continued a nuisance in many areas of State as adults entered buildings seeking shelter from cool temperatures. (Okla. Coop. Sur.).

MOSQUITOES - UTAH - Mosquitoes were kept at very low level in Weber County. Light trap counts were lower than normal, but higher than during 1959. Culiseta inornata has been on increase for past 3 years, with fewest Aedes dorsalis ever taken. Controls applied to a total of 22,195 acres and 1,203 linear miles during the season; 20,000 Gambusia fish stocked. Trap lights in urban areas averaged only 2.56 mosquitoes per night. Culex tarsalis were taken in largest numbers, followed by Culiseta inornata, Aedes dorsalis, A. nigromaculis, A. vexans, Anopheles freeborni and Culex pipiens. (Fronk, Knowlton).

LONG-NOSED CATTLE LOUSE (Linognathus vituli) - OKLAHOMA - Light on occasional cattle checked in central and north central areas; numerous on some cattle checked in east central and southeast areas. (Okla. Coop. Sur.).

WASPS - OKLAHOMA - Several species continue annoying in many parts of State. (Okla. Coop. Sur.).

TICKS - OKLAHOMA - Dermacentor albopictus adults appearing on dairy cows in Cherokee County; averaged 8 per animal on beef cows checked in Pushmataha County. Otobius megnini averaged 25 (ranged 5-55) per animal on cattle checked in Canadian and Pawnee Counties. Rhipicephalus sanguineus causing some concern to pet owners in Payne County area. (Okla. Coop. Sur.). NEW MEXICO - Large numbers of O. megnini found in ears of range cattle in Eddy County. (N. M. Coop. Rpt.).

BENEFICIAL INSECTS

A PARASITE (Dusmetia sangwani) - ARIZONA - Two releases of this parasite of Antonina graminis have been made in infested grasses in Tucson area, Pima County; one in Bermuda grass and one in Johnson grass. (Ariz. Coop. Sur.).

NABIDS - TEXAS - Light populations of several species in many panhandle area fields of small grain. (Daniels).

MISCELLANEOUS INSECTS

COCKROACHES - VIRGINIA - Light, local infestation of all stages of Supella supellectilium in storage building at Naval Supply Center, Norfolk. This is first known infestation at this location. (Sims). UTAH - S. supellectilium infesting a home and 2 apartments in Logan, Cache County. (Knowlton). NEW MEXICO - Blatta orientalis and Blattella germanica have become a serious nuisance in homes in Dona Ana and Bernalillo Counties. (N. M. Coop. Rpt.).

EUROPEAN EARWIG (Forficula auricularia) - PENNSYLVANIA - Collected in Lackawanna County, October 17, for a new county record. Det. by A. B. Gurney. (Gesell).

AN EARWIG (Labia minor) - PENNSYLVANIA - Collected in Lackawanna County October 17. (Gesell).

BOXELDER BUG (Leptocoris trivittatus) - KANSAS - Entering homes in Finney County area; numbers extremely large. (DePew).

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - NORTH CAROLINA - Inspection of 212 acres on 9 properties in Union County negative (Read, Nov. 8); 79 properties totaling 1,698 acres in Anson County and 14 properties totaling 27 acres in Union County surveyed, with negative results. (Savage, Nov. 8).

SALT-MARSH CATERPILLAR (Estigmene acrea) - TEXAS - Common on and along highways in central part of State. (Newton).

A MECOPTERON (Merope tuber) - PENNSYLVANIA - Collected in a light trap at Beaver by a 4-H entomology member, Mark Carter, during October. (Adams).

CLOVER MITE (Bryobia praetiosa) - NEBRASKA - Invading homes in Lincoln area, Lancaster County. (Roselle).

CORRECTIONS

CEIR 10(44):1036 - APHIDS - OKLAHOMA - Rhopalosiphum splendens and R. subterraneum should read Rhopalosiphum rufiabdominalis. WYOMING - R. splendens should read R. rufiabdominalis. Both species are in synonymy with R. rufiabdominalis.

CEIR 10(45):1067 - Under Coccidae - Adpidiotus palmae should read Aspidiotus palmae.

CEIR 10(46):1080 - A SARCOPHAGID (Wohlfahrtia opaca) - IDAHO - Last statement should read: "In 1959, this same species....."

LIGHT TRAP COLLECTIONS

	Pseud. unip.	Laphyg. frug.	Agrot. ips.	Perid. saucia	Feltia subterr.	Helio. zea
ARKANSAS						
Morrilton 11/3-9	4		13			6
Fayetteville 11/3-9	4		6			8
FLORIDA						
Quincy 10/31			1			4
Gainesville 11/6		1			1	2
INDIANA (County)						
Tippecanoe 10/27-11/10	3					6
KANSAS						
Garden City 10/23-30	10		7	1		19
Hays 10/30,31	8		1			104
Manhattan 10/25-28						25
Mound Valley 10/27	4		1	4		
Wathena 10/19-11/6	37		11	9		326
LOUISIANA						
Baton Rouge 11/4-10	6	2	2		10	
SOUTH CAROLINA						
Charleston 10/31-11/6	7	1	12		3	2
TENNESSEE (Counties)						
Maury 10/1-7	3					
Robertson 10/1-7	7		7			5
Cumberland 10/1-7	3		5			2
Greene 10/1-7	13	1	4			1
Blount 10/1-7	2		2			
TEXAS						
Waco 11/5-11	2			2	13	1
Brownsville 10/29-11/4	4	33	1		2	

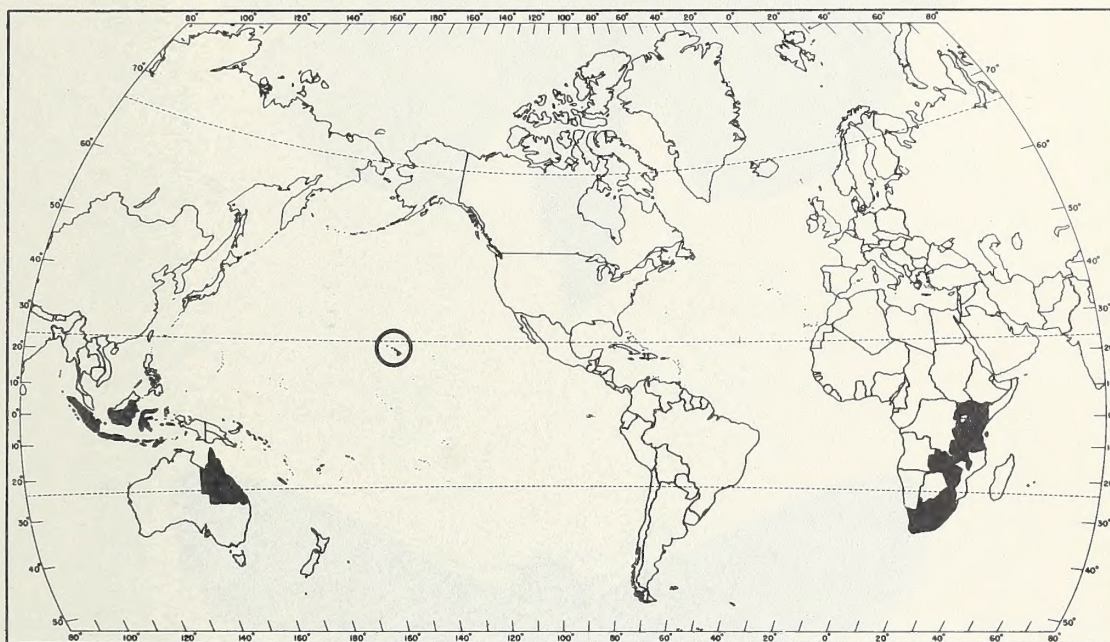
INSECTS NOT KNOWN TO OCCUR IN THE UNITED STATES ¹

NUTGRASS ARMYWORM (Spodoptera exempta (Walker))

Economic Importance: This noctuid is one of the most important pests of cereals and other grasses in Africa. Extensive damage has occurred periodically. Outbreaks take place at approximately five-year intervals in Southern Rhodesia and sometimes cause severe injury to corn. The species has caused damage in Hawaii for many years where it is of concern annually in sugarcane plantations. Damaging infestations have also been reported in sugarcane, corn and forage grasses in Queensland, Australia.

Hosts: Corn, sugarcane, small grains and other grasses preferred. Also reported on many other plants including cotton, tobacco and potato.

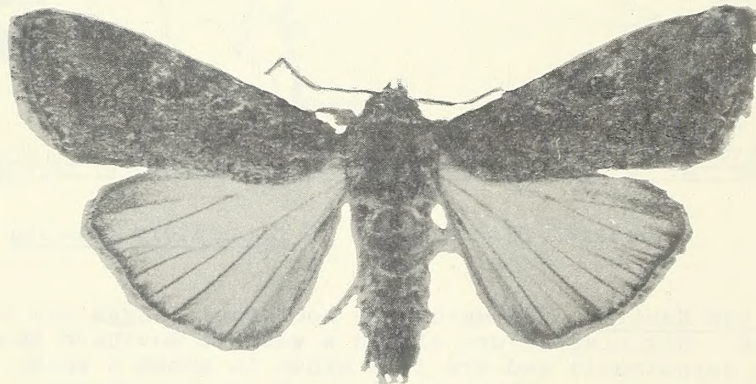
Distribution: Hawaii, Australia (Queensland), Africa (Federation of Rhodesia and Nyasaland, Kenya, South Africa, Tanganyika, Uganda), Indonesia.



General Distribution of Spodoptera exempta

Life History and Habits: The moths are nocturnal. Eggs are deposited in masses on food plants. Hatching occurs within a week in Southern Rhodesia. Larvae begin feeding voraciously and are full grown in about 3 weeks. Pupation occurs in the soil and moths emerge within 14 days. Under experimental conditions, the life cycle from egg to adult requires about 40 days. Outbreaks rarely last more than 10 days after the larvae are noted. Optimum conditions for an outbreak appear to be high temperature during the oviposition period and an abundance of succulent grasses for the young larvae.

Description: ADULT wing expanse about 30 mm. Color variable, some specimens darker than others. Brownish with white underwings. Very similar to related species in appearance. LARVA - Length 25-30 mm. Dark colored, dorsum dark green with a lighter narrow median line. This median line consists of three thin light lines. Two thin light lines border the dark dorsal area. A narrow dark stripe runs along the region of the spiracles, which are dark brown or black. Ventral surface and legs light yellowish-green. Head uniformly blackish or reticulate; edge of eyes and lateral margins of front whitish. (Prepared in Survey and Detection Operations in cooperation with other ARS agencies).
CEIR 10(47) 11-18-60



Male (above) and Female (below) of Spodoptera exempta

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